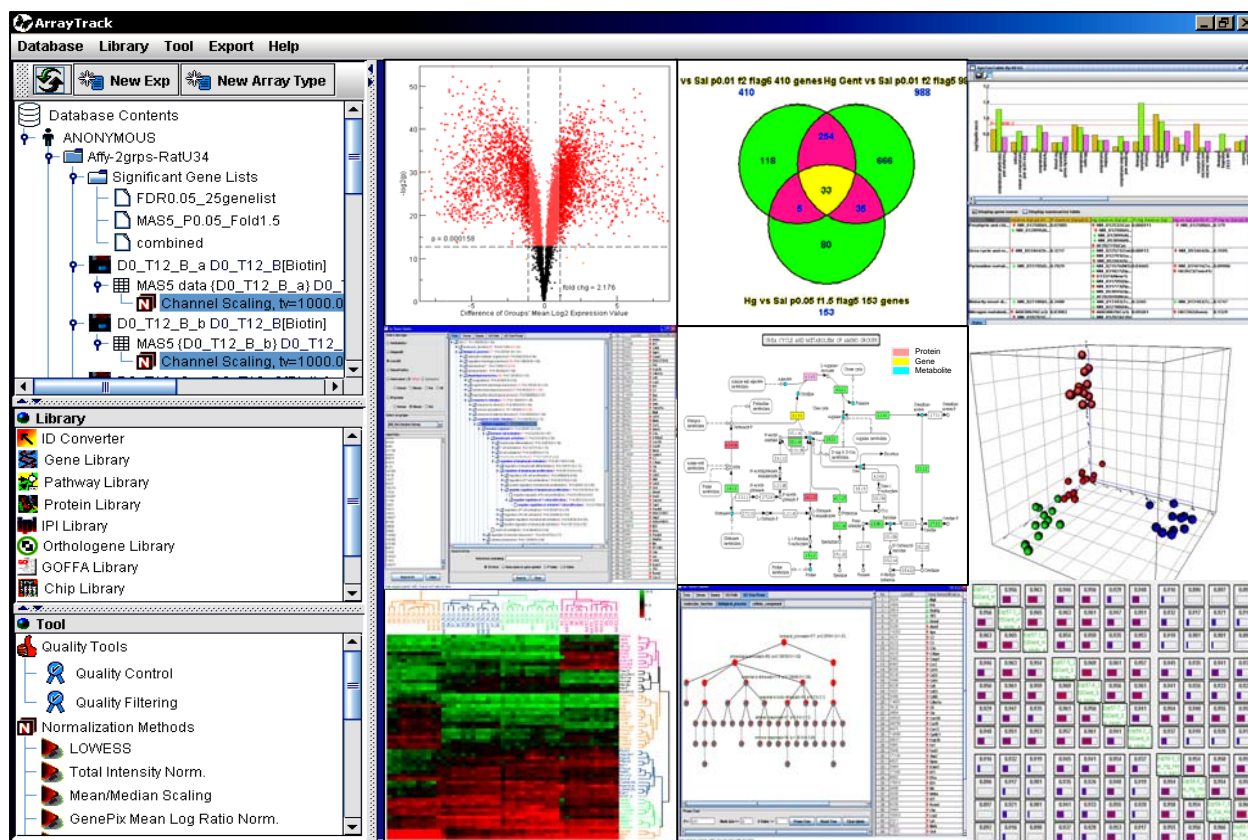


# FDA Genomic Tool: ArrayTrack



- A free bioinformatics resource for DNA microarray and systems biology
- Allows for the management, analysis, and interpretation of omics data within a single package
- Utilized by the U.S. FDA for the review of genomic data submissions

**DNA microarray** technology is a key application in pharmaco- and toxicogenomics, a field identified in FDA's Critical Path Initiative as a major opportunity for advancing medical product development and personalized medicine. It is expected that the review of microarray-based medical devices and microarray data will become an essential regulatory responsibility for the FDA. A single microarray experiment generates a large volume of data and the *management, analysis and interpretation* of such data challenge both sponsors and regulatory reviewers. Realizing that the integration of these three essential components into one single application will help to realize the full value of this exciting technology, FDA's National Center for Toxicological Research (NCTR) developed ArrayTrack™, a free software tool providing an integrated solution to manage, analyze, and interpret microarray data and the extension to systems biology data.



**ArrayTrack™** stores both microarray data and experimental parameters associated with pharmaco- and toxicogenomic studies. Many statistical and visualization tools are available via ArrayTrack™, which are integrated with a rich collection of functional information about genes, proteins and pathways for biological interpretation. By selecting one of the analysis methods, the ArrayTrack™ user can directly link analysis results with functional information such as biological pathways and gene ontology.



**ArrayTrack™ is freely available to the public at**  
[www.fda.gov/scienceresearch/bioinformaticstools/arraytrack](http://www.fda.gov/scienceresearch/bioinformaticstools/arraytrack)

**NCTR**

